



Docket No.: S8810.0003/P003  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Masashi Kawasaki et al.

Application No.: 10/588,283

Confirmation No.: N/A

Filed: August 4, 2006

Art Unit: Not Yet Assigned

For: METHOD OF MANUFACTURING THIN FILM, METHOD OF MANUFACTURING p-TYPE ZINC OXIDE THIN FILM AND SEMICONDUCTOR DEVICE

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Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.97, Applicants hereby make of record the following additional documents. A PTO Form SB/08 accompanies this statement.

Applicants have become aware of the following documents, cited in an International Search Report issued December 6, 2004, during the prosecution of International Application No. PCT/JP2004/013246, which corresponds to the above referenced application, and in accordance with 37 CFR 1.97(b)(3), hereby submit these documents for the Examiner's consideration. These documents are cited on the enclosed PTO Form SB/08, and a copy of the International Search Report and of each document required under 37 CFR 1.98(a)(2) cited thereon are enclosed as well.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be construed *per se* as a representation that such document is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited documents.

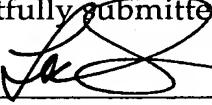
This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. S8810.0003/P003.

Dated: December 7, 2006

Respectfully submitted,

By \_\_\_\_\_

  
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PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031  
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Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/588,283
				Filing Date	August 4, 2006
				First Named Inventor	Masashi Kawasaki
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	S8810.0003/P003

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US 2002/0058351	5-2002	Iwata et al.	
		6,649,434	11-2003	Iwata et al.	
		6,664,565	12-2003	Sano et al.	
		6,939,731	9-2005	Ishizaki	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
		JP-2001 068485	3-2001	Stanley Electric Co., Ltd.	<input checked="" type="checkbox"/>
		JP-2002 093822	3-2002	Nat. Inst. Of Adv. Ind. & Tech.; Rohm Co. Ltd.	<input checked="" type="checkbox"/>
		JP-2003 046081	2-2003	Sharp KK, Kawasaki Masashi	<input checked="" type="checkbox"/>
		JP-2003 104792	4-2003	Kawasaki Masashi, Saito Hajime	<input checked="" type="checkbox"/>
		JP-2003 069076	3-2003	Shinetsu Handotai KK	<input checked="" type="checkbox"/>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
		A. Tsukazaki et al., "Molecular Layer-by-Layer Growth of High Quality ZnO Films Compatible with Semiconductor Technology", <u>10th International Workshop on Oxide Electronics</u> ; Sept. 11, 2003, page 129			
		Shuji Hanho et al. "MEB Seicho ZnO Usumaku no Netsushori ni yoru Denki Tokusei no Henka, 2003 Nen (Heisei 15 Nen), Shuki Dai 64 Kai Extended Abstracts, <u>The Japan Society of Applied Physics</u> , August 30, 2003, page 260			
		K. Sakurai et al., "Growth of ZnO by Molecular Beam Epitaxy Using No2 as Oxygen Source; <u>Japanese Journal of Applied Physics</u> , Vol. 38, No. 4B, April 1999; pp. 2606 to 2608			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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